

CLAIM AMENDMENT

Please amend the claims in accordance with the following listing.

Listing of Claims:

1 (previously presented): A method, including steps of

determining first values for a plurality of first parameters and at least one second parameter for a communication link, said first parameters being associated with a first layer of an OSI model communication system and said second parameter being associated with a second layer of an OSI model communication system;

sending first information using said first values for said communication link, said communication link being either an intracell communication link or an intercell communication link;

obtaining second information regarding characteristics of said communication link in response to a result of said steps of sending;

adjusting a plurality of said first values in conjunction in response to said second information, whereby further use of said communication link is responsive to said steps of adjusting;

performing said step of determining with regard to both a first communication link and a second communication link;

performing said step of sending with regard to both said first communication link and said second communication link;

performing said step of obtaining with regard to both said first communication link and said second communication link; and

performing said step of adjusting in response to a result of said step of obtaining for each of said first communication link and said second communication link, whereby said step of adjusting is responsive to potential interference between communication on said first communication link and said second communication link.

2 (cancelled).

3 (cancelled).

4 (previously presented): A method as in claim 1, wherein
said first communication link includes either an intracell communication link or an intercell communication link; and
said second communication link includes an intercell communication link.

5 (previously presented): A method as in claim 1, wherein said steps of adjusting include using a first hysteresis link parameter with regard to said first communication link and a second hysteresis link parameter with regard to said second communication link.

6 (previously presented): Apparatus including

means for determining first values for a plurality of first parameters and at least one second parameter for a communication link, said first parameters being associated with a first layer of an OSI model communication system and said second parameter being associated with a second layer of an OSI model communication system;

means for sending first information using said first values for said communication link, said communication link being either an intracell communication link or an intercell communication link;

means for obtaining second information regarding characteristics of said communication link in response to a result of said steps of sending; and

means for adjusting a plurality of said first values in conjunction in response to said second information, whereby further use of said communication link is responsive to said steps of adjusting; wherein:

said means for determining is coupled to both a first communication link and a second communication link;

said means for sending is coupled to both said first communication link and said second communication link;

said means for obtaining is coupled to both said first communication link and said second communication link;

said means for adjusting is coupled to an output of said means for obtaining for each of said first communication link and said second communication link, said means for adjusting being responsive to potential interference between communication on said first communication link and said second communication link.

7 (cancelled).

8 (cancelled).

9 (previously presented): Apparatus as in claim 6, wherein
said first communication link includes either an intracell communication link or an intercell
communication link; and
said second communication link includes an intercell communication link.

10 (previously presented): Apparatus as in claim 6, wherein said means for adjusting
include a first hysteresis link parameter with regard to said first communication link and a second
hysteresis link parameter with regard to said second communication link.

11 (previously presented): Apparatus including
at least one base station controller capable of determining first values for a plurality of first
parameters and at least one second parameter for a first communication link, said first parameters of
said first communication link being associated with a first layer of an OSI model communication
system and said second parameter of said first communication link being associated with a second
layer of an OSI model communication system;

said base station controller being capable of sending first information using said first values for said first communication link, said first communication link being either an intracell communication link or an intercell communication link;

said base station controller being capable of obtaining second information regarding characteristics of said first communication link, after sending the first information using said first values; and

said base station controller being capable of adjusting a plurality of said first values in conjunction in response to said second information, whereby further communication over said first communication link uses said first values adjusted by the base station controller.

12 (cancelled).

13 (previously presented): Apparatus as in claim 11, wherein

said base station controller is capable of determining second values for a plurality of first parameters and at least one second parameter for a second communication link, said first parameters of said second communication link being associated with a first layer of an OSI model communication system and said second parameter of said second communication link being associated with a second layer of an OSI model communication system;

said base station controller is capable of communicating over said second link using said second values for said second communication link;

said base station controller is capable of independently controlling the first parameters and said second parameters for both said first communication link and said second communication link, in response to potential interference between communication on said first communication link and said second communication link.

14 (original): Apparatus as in claim 13, wherein

said first communication link includes either an intracell communication link or an intercell communication link; and

said second communication link includes an intercell communication link.

15 (previously presented): Apparatus as in claim 13, wherein said means for adjusting include a first hysteresis link parameter with regard to said first communication link and a second hysteresis link parameter with regard to said second communication link.

16 (cancelled).

17 (cancelled).

18 (cancelled).

19 (cancelled).

20 (cancelled).

21 (cancelled).

22 (cancelled).

23 (cancelled).

24 (cancelled).

25 (cancelled).

26 (cancelled).

27 (cancelled).

28 (cancelled).

29 (cancelled).

30 (cancelled).

31 (cancelled).

32 (cancelled).

33 (cancelled).

34 (currently amended): A method, comprising steps of:

determining first values for a plurality of first parameters and at least one second parameter for a communication link, said first parameters being associated with a first layer of an OSI model communication system and said second parameter being associated with a second layer of an OSI model communication system;

sending first information using said first values for said communication link, said communication link being either an intracell communication link or an intercell communication link;

obtaining second information regarding characteristics of said communication link in response to a result of said steps of sending; and

adjusting a plurality of said first values in conjunction in response to said second information, whereby further use of said communication link is responsive to said steps of adjusting;

wherein the communication link comprises:

a wireless connection between a base station controller and customer premises equipment;
and

a backhaul connection between the base station controller and a non-wireless communication system. ~~system;~~ and

wherein the plurality of adjusted first values comprises a value of at least one of the first parameters and a value of the second parameter.

35 (currently amended): A method, including steps of
determining first values for a plurality of first parameters and at least one second parameter for a communication link, said first parameters being associated with a first layer of an OSI model communication system and said second parameter being associated with a second layer of an OSI model communication system;

sending first information using said first values for said communication link, said communication link being either an intracell communication link or an intercell communication link;

obtaining second information regarding characteristics of said communication link in response to a result of said steps of sending; and

adjusting a plurality of said first values in conjunction in response to said second information, whereby further use of said communication link is responsive to said steps of adjusting;

wherein said step of obtaining comprises sensing an effect selected from the group consisting of fading and multipath ~~effects.~~ effects; and

wherein the plurality of adjusted first values comprises a value of at least one of the first parameters and a value of the second parameter.

36 (previously presented): A method as in claim 35, wherein said step of obtaining comprises a step of sensing fading.

37 (previously presented): A method as in claim 35, wherein said step of obtaining comprises a step of sensing multipath effects.

38 (previously presented): A method, including steps of
determining first values for a plurality of first parameters and at least one second parameter for a communication link, said first parameters being associated with a first layer of an OSI model communication system and said second parameter being associated with a second layer of an OSI model communication system;

sending first information using said first values for said communication link, said communication link being either an intracell communication link or an intercell communication link;

obtaining second information regarding characteristics of said communication link in response to a result of said steps of sending; and

adjusting a plurality of said first values in conjunction in response to said second information, whereby further use of said communication link is responsive to said steps of adjusting;

wherein the plurality of first values comprises a value selected from the group consisting of a value of an antenna selection parameter, a value of a modulation type parameter, a value of a symbol rate parameter, a value of an error code parameter, a value of an equalization parameter, a value of a TDD duty cycle parameter, a number of message retransmission attempts over the communication link, a frequency of acknowledgement messages transmitted over the communication link, a symbol transmission rate of the communication link, a number of payload data bits assigned per symbol transmitted over the communication link, a number of error detection/correction bits assigned per symbol transmitted over the communication link, a number of payload data bytes assigned per message transmitted over the communication link, and a fraction of the communication link allocated to downstream communication.

39 (previously presented): A method as in claim 38, wherein the plurality of first values comprises a value of an antenna selection parameter.

40 (previously presented): A method as in claim 38, wherein the plurality of first values comprises a value of a modulation type parameter.

41 (previously presented): A method as in claim 38, wherein the plurality of first values comprises a value of a symbol rate parameter.

42 (previously presented): A method as in claim 38, wherein the plurality of first values comprises a value of an error code parameter.

43 (previously presented): A method as in claim 38, wherein the plurality of first values comprises a value of an equalization parameter.

44 (previously presented): A method as in claim 38, wherein the plurality of first values comprises a value of a TDD duty cycle parameter.

45 (previously presented): A method as in claim 38, wherein the plurality of first values comprises a number of message retransmission attempts over the communication link.

46 (previously presented): A method as in claim 38, wherein the plurality of first values comprises a frequency of acknowledgement messages transmitted over the communication link.

47 (previously presented): A method as in claim 38, wherein the plurality of first values comprises a symbol transmission rate of the communication link.

48 (previously presented): A method as in claim 38, wherein the plurality of first values comprises a number of payload data bits assigned per symbol transmitted over the communication link.

49 (previously presented): A method as in claim 38, wherein the plurality of first values comprises a number of error detection/correction bits assigned per symbol transmitted over the communication link.

50 (previously presented): A method as in claim 38, wherein the plurality of first values comprises a number of payload data bytes assigned per message transmitted over the communication link.

51 (previously presented): A method as in claim 38, wherein the plurality of first values comprises a fraction of the communication link allocated to downstream communication.